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## Insecta (Lepidoptera) of Yeongsil in Hallasan Mountain National Park

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**Abstract:** As a result of survey on the Lepidoptera Yeongsil area Mt. Hallasan National Park, Jeju Island, Totally of 292 species in 22 families of the Lepidoptera were identified and listed. Among them, eleven species are newly added to the Lepidoptera fauna of Jeju Island; *Apotomis vaccini* Kuznetsov, 1969, *Olethreutes transversana* (Christoph, 1881) and *Pandemis heparana* (Dennis et Schiffermuller, 1775) of Tortricidae, *Calamotropha okanoi* Bleszyski, 1961, *Hypsopygia kawabei* Yamanaka, 1965 and *Pempelia ellenella* (Roesler, 1975) of Pyralidae, *Tetthea consimilis* (Warren, 1912) of Thyatiridae, *Dysstroma citrata* (Linnaeus, 1761) and *Pseudepione marginaria* (Wilemann, 1911) of Geometridae, *Hypena stygiana* Butler, 1878 and *Xestia tabida* (Butler, 1878) of Noctuidae. These results may reflect that the natural environment of Yeongsil area is relatively specific on this island and well conserved.

**Keywords:** Lepidoptera, Yeongsil, Mt. Hallasan National Park, Korea

### Introduction

The Yeongsil region, included in the Hallasan (Mt.) natural reserve, is part of Jungmun-dong, Seogwipo-si. The Yeongsil region, as a part of the Hallasan National Park designated as UNESCO Biosphere Reserve and World Natural Heritage, is composed broadly of 4 vegetation types: *Pinus densiflora* S. et Z. colony, *Pinus densiflora* S. et Z.-*Carpinus tschonoskii* MAX. colony, *Carpinus tschonoskii* MAX.-*Quercus serrata* Thunberg colony and *Carpinus tschonoskii* MAX. colony. Furthermore, the region exhibits traits different from that of within Hallasan National Park, such as the observation of insects near water as a result of flowing valleys.

Past studies on the insect fauna of the Yeongsil region is limited to intermittent and fragmentary studies and the reuse of past documents. Therefore, this study assessed the butterflies of the region and organized past records, in order to examine the butterfly fauna of the relatively well-maintained Yeongsil region. The purpose of this study was to obtain data for the measurement of changes in the future butterfly fauna diversity of Yeongsil region.

### Study Method

Field study was conducted between 1993 and October of 2011, with focus on the Yeongsil Visitors Office (1,000 m

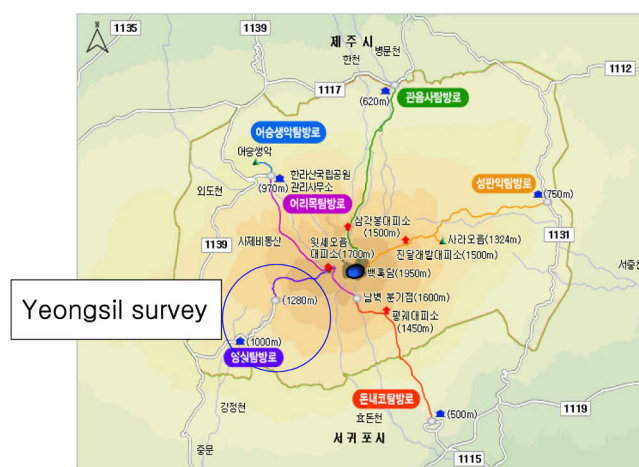


Fig. 1. Survey area of Yeongsil in Hallasan Mountain National Park.

above sea level) and Yeongsil rest stop (1,280 m above sea level) (Fig. 1).

During the day, flying insects, such as members of butterflies, were collected by sweeping net method using insect nets, and during the night, portable generator (220 V mercury lamp) and UV bucket light trap (Bioquip 12 V, 18 AH, diameter 31.3 cm, height 32 cm) were installed to capture them. The collected moths were made as specimens, identified, and classified the next day (Fig. 2).

Furthermore, past records of the survey area, alongside specimens stored in Folklore & Natural Museum Jeju Special Self-Governing Province, Halla Arboretum and Korea National Arboretum were organized.

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Fig. 2. Night-time collection at Yeongsil in Mt. Hallasan National Park.

## Results and Discussion

### A. Past studies

In the case of past studies on order Lepidoptera of Yeongsil region, Park (1969) reported 1 species of *Eurypara lancealis* (Denis et Schiffermiller, 1775) of family Pyralidae, 9 species of family Geometridae, including *Colotois pennaria* (Linnaeus, 1761). In the 1980s, Sato (1984) reported 1 species of *Racotis petrosa* (Butler, 1879) of family Geometridae, and Lee *et al.* (1985) reported 14 families and 67 species.

In the 1990s, Park and Byun (1995) reported 5 species of family Tortricidae of Microlepidoptera, including the *Archips capsigeranus* (Hbner, 1825), Byun *et al.* (1995) reported 4 families and 28 species of Microlepidoptera, Park *et al.* (1995) reported 3 families and 26 species of Macrolepidoptera, Oh (1995) reported 20 species of family Geometridae, including *Acasis viretata* (Hbner, 1799), Lee and Jung (1995) reported 12 species of family Sphingidae, including *Acosmeryx castanea* (Rothschild et Jordan, 1903), and Ahn *et al.* (1995) reported 8 species of family Noctuidae, including *Agrotis ipsilon* (Hufnagel, 1776). Furthermore, Shin (1996) reported 20 species of family Geometridae, including *Eulithis ledereri* (Bremer, 1864), Jung (1997) reported 13 species of family Sphingidae, including *Acosmeryx naga* (Moore, 1857), Byun *et al.* (1998) reported 10 species of family Tortricidae, including *Acleris laterana* (Fabricius, 1794), and Park *et al.* (1999) reported 1 species of family Lasiocampidae, 15 species of family Sphingidae and 5 species of family Notodontidae, for a total of 3 families and 21 species.

Beginning year 2000, Park (2000) reported 14 species of family Sphingidae, 1 species of family Lymantriidae, 3 species of family Arctiidae, for a total of 3 families and 18 species, Kim (2000) reported 6 families and 23 species of butterflies, Kim *et al.* (2001) reported 26 species of family Geometridae, including *Aethalura nanaria* (Staudinger, 1897) and *Aethalura nanaria* (Staudinger, 1897) reported 1 species of *Etiellodes curvellus* (Shibuya, 1928] of family

Pyralidae.

Recently, Park and Ponomarenko (2007) reported 7 species of family Gelechiidae, including *Ananarsia bipinnata* (Meyrick, 1932), and Bae *et al.* (2008) reported 6 species of family Pyralidae, including *Circobotys nycterina* (Butler, 1879). The majority of these studies were based on either past documents or intermittent studies.

As previously mentioned, studies on the insect fauna of Yeongsil region have been limited to intermittent and fragmentary studies and the reuse of past documents. Therefore, this study assessed the butterflies of the region and organized past records, in order to examine the butterfly fauna of the relatively well-maintained Yeongsil region. The purpose of this study was to obtain data for the measurement of changes in the future butterfly fauna diversity of Yeongsil region.

### B. Discussion

Results of the study on the butterfly fauna of the Yeongsil region included a total of 22 families and 292 species (Table 1). In terms of the species of the butterfly fauna observed in the Yeongsil region, the order from the highest to lowest is as follows: family Geometridae at 69 species (23.31%) > family Noctuidae at 56 species (19.17%) > family Tortricidae at 35 species (12.41%) > family Pyralidae at 21 species (7.19%) > family Notodontidae at 20 species (6.84%) > family Sphingidae at 17 species (5.82%) > family Satyridae at 11 species (3.76%) > family Gelechiidae at 10 species (3.42%) > others at 53 species [18.08%; family Arctiidae at 7 species, family Nymphalidae at 7 species, family Lymantriidae at 6 species, family Drepanidae at 5 species, family Thyatiridae at 5 species, family Pieridae at 5 species, family Limacodidae at 3 species, family Lasiocampidae at 3 species, family Hesperidae at 3 species, family Lycaenidae at 3 species, family Saturniidae at 2 species, family Papilionidae at 2 species, family Oecophoridae at 1 species and family Danaidae at 1 species (Fig. 3).

In the case of previously unrecorded species of order

**Table 1.** The total number of Lepidoptera and relative dominance in of Yeongsil in Hallasan Mountain National Park

Family Name	Spec. Num.	Ratio (%)	Natural monument	EW		ESK	MES	DS	Remark
				Level I	Level II				
Family 1. Tortricidae 잎말이나방과	35	12.41				1		1	3
Family 2. Oecophoridae 원뿔나방과	1	0.34							
Family 3. Gelechiidae 뿔나방과	10	3.42				3			
Family 4. Pyralidae 명나방과	21	7.19						1	3
Family 5. Limacodidae 켜기나방과	3	1.02							
Family 6. Drepanidae 갈고리나방과	5	1.71							
Family 7. Thyatiridae 뽕죽날개나방과	5	1.71							1
Family 8. Geometridae 자나방과	69	23.31							2
Family 9. Lasiocampidae 솔나방과	3	1.02							
Family 10. Saturniidae 산누에나방과	2	0.68							
Family 11. Sphingidae 박각시과	17	5.82				1	1		
Family 12. Notodontidae 재주나방과	20	6.84					1	1	
Family 13. Lymantriidae 독나방과	6	2.05					1	1	
Family 14. Arctiidae 불나방과	7	2.39							
Family 15. Noctuidae 밤나방과	56	19.17						1	2
Family 16. Hesperidae 팔랑나비과	3	1.02							
Family 17. Papilionidae 호랑나비과	2	0.68							
Family 18. Pieridae 흰나비과	5	1.71							
Family 19. Lycaenidae 부전나비과	3	1.02					1	2	
Family 20. Danaidae 왕나비과	1	0.34						1	
Family 21. Nymphalidae 네발나비과	7	2.39			1			1	
Family 22. Satyridae 뱀눈나비과	11	3.76	1	1		1	1	2	
Total	292	100	1	1	1	6	5	11	11

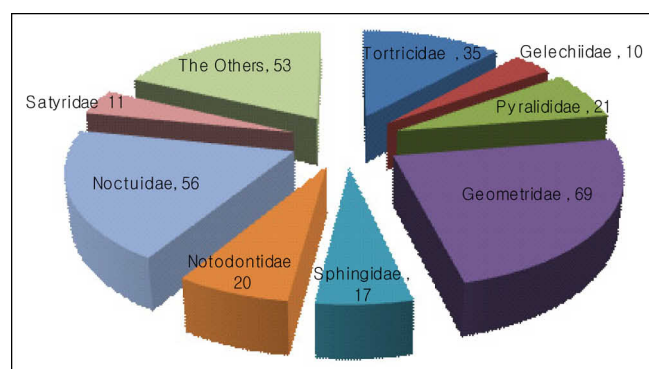
EW: Endangered species

ESK : Endemic Species Korea (NIBR, 2011)

MES : Management of Exotic Species (NIER, 2006)

DS : Designated Species (NIER, 2006)

Remark : First Record of Jeju-do Is.

**Fig. 3.** Species and Family of the Lepidoptera at Yeongsil in Mt. Hallasan National Park.

Lepidoptera in Jeju-do, 1 individual of *Apotomis vaccini* (Kuznetsov, 1969) of family Tortricida was observed on July 22nd, 2009, 3 individuals and 5 individuals of *Olethreutes transversana* (Christoph, 1881) were observed on July 20th, 2009 and July 30th, 2009, respectively and 2 individuals of *Pandemis heparana* (Dennis et Schiffermuller, 1775) were observed on August 13th, 2009. In terms of family Pyralididae, 1 individual of *Calamotropha okanoi* (Bleszyski, 1961) was observed on August 13th, 2009, 1 individual of *Hypsopygia kawabei* (Yamanaka, 1965) on July 22nd, 1999, and 3 individuals of *Pempelia ellenella*

(Roesler, 1975) on August 13th, 2009. In the case of family Thyatiridae, 8 individuals of *Tethea consimilis* (Warren, 1912) were observed on September 28th, 2009. In terms of family Geometridae, 20 individuals of *Dysstroma citrata* (Linnaeus, 1761) were observed on June 3rd, 2009, and 2 individuals of *Pseudepione marginaria* (Wilemann, 1911) were observed on September 28th, 2009. In the case of family Noctuidae, 1 individual of *Hypena stygiana* (Butler, 1878) was observed on July 22nd, 2009, and 4 individuals of *Xestia tabida* (Butler, 1878) were observed on July 22nd, 2009, for a total of 5 families and 11 species.

Furthermore, important species found near hiking trails in the Yeongsil region during this study are as follows. Species protected by the Cultural Heritage Administration as a natural monument includes 1 species of *Eumenis autonoe* (Esper, 1781), a member of order Lepidoptera and family Satyridae. This species is being protected as a class-I endangered species as designated by the Ministry of Environment (Fig. 4). Species protected by the Ministry of Environment as class-II endangered species includes 1 species of *Fabriciana nerippe* (C. et R. Felder, 1862). 6 Korean Indigenous Species, including *Oxyambulyx japonica* (Rothschild, 1894) (Fig. 5), 5 species requiring authorization for export, including *Lymantria dispar* (Linnaeus, 1758) (Fig. 6) and 11 special species, including *Aphantopus*



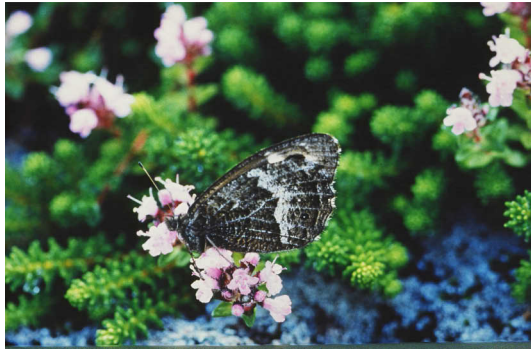


Fig. 4. *Eumenis autonoe* (Esper, 1781).



Fig. 7. *Aphantopus hyperantus* (Linnaeus, 1758).



Fig. 5. *Oxyambulyx japonica* (Rothschild, 1894).



Fig. 8. *Synegia esther* (Butler, 1881).



Fig. 6. *Lymantria dispar* (Linnaeus, 1758).



Fig. 9. *Peridrona saucia* (Hubner, 1808).

*hyperantus* (Linnaeus, 1758)] (Fig. 7), were observed.

Species found outside of Korea but only in Jeju-do in Korea include 1 Tortricidae species of *Homona issikii* (Yasuda, 1962), 3 Geometridae species of *Cleora cinctaria* (Denis et Schiffemller, 1775)], *Rhynchobapta eburnivena* (Warren, 1896)] and *Synegia esther* (Butler, 1881) (Fig. 8) and 1 Noctuidae species of *Peridrona saucia* (Hubner, 1808)](Fig. 9), for a total of 3 families and 5 species.

Outside of the Hallasan National Park, a total of 131 families and 531 species of butterflies has been reported by Jung and Kim (2000) in the Gwaneumsa (Temple) region. A total of 22 families and 292 species of insects were found in the Yeongsil region during this study, which makes up only approximately 55% of the aforementioned figure. This result may have been affected by vegetation and the number

of study sessions. Therefore, while the vegetation of Gwaneumsa region includes deciduous broad-leaved trees, such as *Quercus serrata* Thunberg and *Prunus sargentii* REHDER, grassy farm fields and wild weed, but the Yeongsil region is characterized by woody plants, such as *Quercus serrata* Thunberg, *Carpinus tschonoskii* MAX. and *Pinus densiflora* S. et Z., and a understory vegetation species of *Sasa quelpaertensis* Nakai, thereby leading to low level of insect diversity. Increasing dominance of understory vegetation by species such as *Sasa borealis* (Hack.) Makino in the Hallasan National Park as well as other national parks will lead to decrease in insect diversity.

The Yeongsil region has been protected as a UNESCO Biosphere Reserve and World Natural Heritage, which play

**Table 3.** List of legally protected Lepidoptera collection of Yeongsil in Mt. Hallasan National Park

Classification		Species
a natural monument		<i>E. autonoe</i> (Esper, 1781)
Endangered species	Level I	<i>E. autonoe</i> (Esper, 1781)
	Level II	<i>F. nerippe</i> (C. et R. Felder, 1862)
Endemic Species (ESK)		<i>Lobesia pyruiformis</i> Bae et Park, 1992, <i>Teleiodes paraluculellus</i> Park, 1992, <i>Pseudotelphusa acrobrunella</i> Park, 1992, <i>Dichomeris lespedezae</i> Park, 1994, <i>Oxyambulyx japonica</i> (Rothschild, 1894), <i>Oeneis nanna</i> Mntris, 1858
Management of Exotic Species (MES)		<i>Oxyambulyx japonica</i> (Rothschild, 1894), <i>Neodrymonia delia</i> (Leech, 1889), <i>Lymantria dispar</i> (Linnaeus, 1758), <i>Lycaeides subsolana</i> (Eversmann, 1851), <i>Coenonympha amaryllis</i> (Cramer, 1782)
Designated Species (DS)		<i>Hedya auricristana</i> (Walsingham, 1900), <i>Catoptria permiaca</i> (Petersen, 1924), <i>Dudusa sphingiformis</i> Moore, 1872, <i>Lymantria dispar</i> (Linnaeus, 1758), <i>Thyas juno</i> (Dalman, 1823), <i>Favonius taxila taxila</i> (Bremer, 1861), <i>Lycaeides subsolana</i> (Eversmann, 1851), <i>Parantica sita</i> (Kollar, 1833), <i>Fabriciana nerippe</i> (C. et R. Felder, 1862), <i>Aphantopus hyperantus</i> (Linnaeus, 1758), <i>Eumenis autonoe</i> (Esper, 1781)

ESK: Endemic Species Korea (NIBR, 2011)

MES: Management of Exotic Species (NIER, 2006)

DS: Designated Species (NIER, 2006)

a significant role in ecological preservation. Therefore, the species composition of order Lepidoptera of this region's forest ecosystem holds a close relationship with the region's vegetation. Furthermore, species recorded for the first time in Jeju-do in this study are assessed to be evidence of increase in the insect resources of Jeju-do. Therefore, continuous studies using various collection methods may lead to more species being observed. It is predicted that results of this study will become important data for measuring the changes in the butterfly fauna of Yeongsil region.

## Acknowledgment

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## Appendix. List of Lepidoptera of Yeongsil in Mt. Hallasan National Park

The classification was followed by the Checklist of Koeran Insects (2010) and species were organized alphabetically. Mark '\*\*' indicates first record of Jeju-do Is., mark '#' indicates species native to Endemic Species of Korea (ESK).

### Order 1. Lepidoptera

#### Family 1. Tortricidae 잎말이나방과

- |   |             |
|---|-------------|
| 1. <i>Acleris amurensis</i> Caradja, 1916                           | 아무르잎말이나방    |
| 2. <i>Acleris cristana</i> (Schifferrmiller et Denis, 1776)         | 깃털무늬잎말이나방   |
| 3. <i>Acleris laterana</i> (Fabricius, 1794)                        | 버들잎말이나방     |
| 4. <i>Acleris logiana</i> Filipjev, 1931                            | 선비잎말이나방     |
| 5. <i>Acleris longiplana</i> (Snellen, 1883)                        | 점무늬잎말이나방    |
| 6. <i>Acleris takeuchii</i> Razowski et Yasuda, 1964                | 세모무늬잎말이나방   |
| 7. <i>Acleris ulmicola</i> (Meyrick, 1930)                          | 참느릅잎말이나방    |
| 8. <i>Ancylis partitana</i> (Christoph, 1881)                       | 신갈애기잎말이나방   |
| 9. <i>Ancylis selenana</i> (Guene, 1845)                            | 살구애기잎말이나방   |
| 10. <i>Apotomis vaccini</i> Kuznetsov, 1969 *                       | 흰끝무늬애기잎말이나방 |
| [Specimens Examined] Yeongsil [1ex, 22-VII-2009].                   |             |
| 11. <i>Archips capsigeranus</i> (Hbner, 1825)                       | 큰주름잎말이나방    |
| 12. <i>Archips pulcher</i> (Butler, 1879)                           | 네줄잎말이나방     |
| 13. <i>Archips subrufanus</i> (Snellen, 1883)                       | 한국잎말이나방     |
| 14. <i>Cryptaspasma marginifasciata</i> (Walsingham, 1900)          | 세모애기잎말이나방   |
| 15. <i>Epinotia rubiginosa koraiensis</i> Falkovitsh, 1968          | 갯애기잎말이나방    |
| 16. <i>Hedya auricristana</i> (Walsingham, 1900)                    | 괴불왕애기잎말이나방  |
| 17. <i>Homona issikii</i> Yasuda, 1962                              | 삼나무잎말이나방    |
| 18. <i>Homona magnanima</i> Diakonoff, 1948                         | 차잎말이나방      |
| 19. <i>Homonopsis foederatana</i> (Kennel, 1901)                    | 낙타등잎말이나방    |
| 20. <i>Lobesia pyruformis</i> Bae et Park, 1992                     | 뽕죽무늬애기잎말이나방 |
| 21. <i>Neoanathamna nipponica</i> (Kawabe, 1971)                    | 진주름애기잎말이나방  |
| 22. <i>Notocelia rosaecolana</i> (Doubleday, 1850)                  | 절레애기잎말이나방   |
| 23. <i>Olethreutes cacuminana</i> (Kennel, 1901)                    | 광릉애기잎말이나방   |
| 24. <i>Olethreutes orthocosma</i> (Meyrick, 1931)                   | 노랑무늬애기잎말이나방 |
| 25. <i>Olethreutes transversana</i> (Christoph, 1881) *             | 줄회색애기잎말이나방  |
| [Specimens Examined] Yeongsil [3ex, 20-VII-2009; 5ex, 30-VII-2009]. |             |
| 26. <i>Pandemis cinnamomeana</i> (Treitschke, 1830)                 | 흰머리잎말이나방    |
| 29. <i>Pandemis corylana</i> (Fabricius, 1794)                      | 치악잎말이나방     |
| 30. <i>Pandemis heparana</i> (Dennis et Schifferrmuller, 1775) *    | 갈색잎말이나방     |
| [Specimens Examined] Yeongsil [2ex, 13-VIII-2009].                  |             |
| 31. <i>Rhopalovalva exartemana</i> (Kennel, 1901)                   | 갈색물결애기잎말이나방 |
| 32. <i>Rhopalovalva pulchra</i> (Butler, 1879)                      | 봄애기잎말이나방    |
| 33. <i>Spilonota albicana</i> (Motschulsky, 1866)                   | 사과속애기잎말이나방  |
| 34. <i>Spilonota semirufana</i> (Christoph, 1881)                   | 사과흰애기잎말이나방  |
| 35. <i>Statherotomantis pictana</i> (Kuznetsov, 1969)               | 노랑눈애기잎말이나방  |

#### Family 2. Oecophoridae 원뿔나방과

- |  |        |
|--|--------|
| 1. <i>Agonopterix l-nigrum</i> (Matsumura, 1931) | 드름원뿔나방 |
|--|--------|

#### Family 3. Gelechiidae 뿔나방과

- |   |          |
|---|----------|
| 1. <i>Altenia inscriptella</i> (Christoph, 1882)                  | 신나무비늘뿔나방 |
| 2. <i>Anarsia bimaculata</i> Ponomarenko, 1989                    | 두점털수염뿔나방 |
| 3. <i>Ananarsia bipinnata</i> (Meyrick, 1932)                     | 괴불잎말이뿔나방 |
| 5. <i>Argolamprotes micella</i> (Dennis et Schifferrmuller, 1775) |          |
| 4. <i>Dichomeris heriguronis</i> (Matsumura, 1931)                | 갈색뿔나방    |

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| 5. <i>Dichomeris lespedezae</i> Park, 1994        | 싸리삼각수염뿔나방 |
| 6. <i>Dichomeris ustalella</i> (Fabricius, 1794)  | 큰털보뿔나방    |
| 7. <i>Parachronistis maritima</i> Omelko, 1986    | 극동털주머니뿔나방 |
| 8. <i>Pseudotelphusa acrobrunella</i> Park, 1992  | 오렌지비늘뿔나방  |
| 9. <i>Teleiodes lineavalvatus</i> (Moriuti, 1977) | 빛살무늬비늘뿔나방 |
| 10. <i>Teleiodes paraluculellus</i> Park, 1992    | 넓적판비늘뿔나방  |

## Family 4. Pyralididae 명나방과

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|--|-----------|
| 1. <i>Agrotera nemoralis</i> (Scopoli, 1763)                   | 연보라들명나방   |
| 2. <i>Calamotropha okanoi</i> Bleszyski, 1961 *                | 점흰포충나방    |
| [Specimens Examined] Yeongsil [1ex, 13-VIII-2009].             |           |
| 3. <i>Catoptria permiaca</i> (Petersen, 1924)                  | 마름모무늬포충나방 |
| 4. <i>Circobotys nycterina</i> Butler, 1879                    | 뿔족노랑들명나방  |
| 5. <i>Conobathra bifidella</i> (Leech, 1889)                   | 사과알락명나방   |
| 6. <i>Crambus argyrophorus</i> Butler, 1878                    | 흰띠포충나방    |
| 7. <i>Crambus pseudargyrophorus</i> Okano, 1960                | 얇은테포충나방   |
| 8. <i>Diasemia accalis</i> (Walker, 1859)                      | 점애기들명나방   |
| 9. <i>Endotricha olivacealis</i> (Bremer, 1864)                | 검은점뿔족명나방  |
| 10. <i>Etiellodes curvellus</i> Shibuya, 1928                  | 흰띠붉은알락명나방 |
| 11. <i>Eurypara lancealis</i> (Denis et Schifferrmiller, 1775) | 제주노랑들명나방  |
| 12. <i>Flavocrambus striatellus</i> (Leech, 1889)              | 검은줄포충나방   |
| 13. <i>Hypsopygia kawabei</i> Yamanaka, 1965 *                 | 회색애기비단명나방 |
| [Specimens Examined] Yeongsil [1ex, 22-VII-1999].              |           |
| 14. <i>Nacoleia commixta</i> (Butler, 1870)                    | 얼룩애기들명나방  |
| 15. <i>Nacoleia tampiusalis</i> (Walker, 1879)                 | 노랑애기들명나방  |
| 16. <i>Paliga auratalis</i> (Warren, 1895)                     | 금빛세줄들명나방  |
| 17. <i>Paliga minnehaha</i> (Preyer, 1877)                     | 앞붉은들명나방   |
| 18. <i>Pempelia ellenella</i> (Roesler, 1975) *                | 가는줄알락명나방  |
| [Specimens Examined] Yeongsil [3ex, 13-VIII-2009].             |           |
| 19. <i>Pyralis regalis</i> Denis et Schifferrmiller, 1775      | 은무늬줄명나방   |
| 20. <i>Sylepta invalidalis</i> South, 1901                     | 큰연무늬들명나방  |
| 21. <i>Tegulifera bicoloralis</i> (Leech, 1889)                | 쌍띠비단명나방   |

## Family 5. Limacodidae 켜기나방과

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|--|-----------|
| 1. <i>Austrapoda nitobeana</i> (Matsumura, 1931) | 켜기나방 일종   |
| 2. <i>Latoia sinica</i> (Moore, 1877)            | 뒷검은푸른켜기나방 |
| 3. <i>Microleon longipalpis</i> Butler, 1885     | 꼬마켜기나방    |

## Family 6. Drepanidae 갈고리나방과

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|--|-----------|
| 1. <i>Deroica inconclusa phasma</i> Butler, 1878   | 남방흰갈고리나방  |
| 2. <i>Ditrigona conflexaria</i> (Walker, 1861)     | 물결줄흰갈고리나방 |
| 3. <i>Hypsomadius insignis</i> Butler, 1877        | 큰갈고리나방    |
| 4. <i>Macrocilix mysticata watsoni</i> Inoue, 1958 | ---갈고리나방  |
| 5. <i>Oreta loochooana timutia</i> Watson, 1967    | 멋쟁이갈고리나방  |

## Family 7. Thyatiridae (Cymatophoridae) 뿔족날개나방과

- |  |            |
|--|------------|
| 1. <i>Habrosyne aurorina</i> (Butler, 1881)                        | 애기담홍뿔족날개나방 |
| 2. <i>Habrosyne pyritoides</i> (Hufnagel, 1766)                    | 흰뿔족날개나방    |
| 3. <i>Parapsestis argenteopicta</i> (Butler, 1878)                 | 점박이뿔족날개나방  |
| 4. <i>Tethea consimilis</i> (Warren, 1912) *                       | 홍백띠뿔족날개나방  |
| [Specimens Examined] Yeongsil [8ex, 28-IX-2009].                   |            |
| 5. <i>Thethea ampliata</i> (Butler, 1878)                          | 넓은뿔족날개나방   |
| [Specimens Examined] Yeongsil [3ex, 9-VII-2008; 8ex, 7-VIII-2008]. |            |

## Family 8. Geometridae 자나방과

1. *Abraxas fulvobasalis* Warren, 1894
2. *Acasis viretata* (Hbner, 1799)
3. *Acrodontis fumosa* (Prout, 1930)
4. *Aethalura nanaria* (Staudinger, 1897)
5. *Alcis angulifera* (Butler, 1878)
6. *Arichanna melanaria* (Linnaeus, 1758)
7. *Ascotis selenaria* (Denis et Schifferrmiller, 1775)
8. *Auaxa sulphurea* (Butler, 1878)
9. *Biston recursaria* Moore, 1888
10. *Biston thoracicaria* (Oberthr, 1884)
11. *Cabera purus* (Butler, 1878)
12. *Callygris compositata* (Guene, 1857)
13. *Chlorissa macrotyro* Inoue, 1954
14. *Cleora cinctaria* (Denis et Schifferrmiller, 1775)
15. *Cleola insolita* (Butler, 1878)
16. *Colotois pennaria* (Linnaeus, 1761)
17. *Comibaena procumbaria* (Pryer, 1877)
18. *Ctenognophos grandinaria* (Motschulsky, 1860)
19. *Deileptenia ribeata* (Clerck, 1759)
20. *Duliophyle agitata* (Butler, 1878)
21. *Duliophyle majuscularia* (Leech, 1899)
21. *Dysstroma cinereatum* (Moor, 1868)
22. *Dysstroma citrata* (Linnaeus, 1761) \*  
[Specimens Examined] Yeongsil [20ex, 3-VI-2009].
23. *Ecliptopera umbrosaria* (Motschulsky, 1861)
24. *Ectropis aigneri* Prout, 1930
25. *Ectropis excellens* (Butler, 1884)
26. *Endropiodes indictinaria* (Bremer, 1864)
27. *Eulithis convergenata* (Bremer, 1864)
28. *Eulithis fabiolaria* Oberthr, 1884
29. *Eulithis ledereri* (Bremer, 1864)
30. *Euphyia cineraria* (Butler, 1878)
31. *Evecliptopera decurrens* (Moor, 1888)
32. *Fascellina chromataria* Walker, 1860
33. *Gandaritis fixeni* (Bremer, 1864)
34. *Geometra dieckmanni* Graeser, 1889
35. *Hemistola tenuilinea* (Alpheraky, 1897)
36. *Heterothera postalbida* (Wileman, 1911)
37. *Hypomecis roboraria* (Denis et Schifferrmiller, 1775)
38. *Isturgia vapulata* (Butler, 1879)
39. *Jankowskia fuscaria* (Leech, 1891)
40. *Jankowskia pseudathleta* Sato, 1980
41. *Lamographa nivea* (Djakonov, 1936)
42. *Lomographa temerata* (Denis et Shiffermiller, 1775)
43. *Melanthia procellata* (Denis et Schifferrmiller, 1775)
44. *Menophra senilis* (Butler, 1878)
45. *Obeidia tigrata* (Guene, 1857)
46. *Odontopera arida* (Butler, 1878)
47. *Ourapteryx maculicaudaria* (Motschulsky, 1866)
48. *Oxymacaria normata* (Alpheraky, 1892)
49. *Parabapta clarissa* (Butler, 1878)
50. *Parabapta clarissa* (Butler, 1878)

- 점얼룩가 지나방  
 검띠물결자나방  
 큰뽕죽가 지나방  
 꼬마아지랑이물결가 지나방  
 털뽕가 지나방  
 뒷노랑점가 지나방  
 네눈썹가 지나방  
 외줄노랑가 지나방  
 불회색가 지나방  
 쌍봉담흑가 지나방  
 줄흰가 지나방  
 배노랑물결자나방  
 강원애기푸른자나방  
 한라가 지나방  
 그늘가 지나방  
 흰점갈색가 지나방  
 무늬박이푸른자나방  
 세줄노랑가 지나방  
 솔검은가 지나방  
 넓은띠큰가 지나방  
 누런큰가 지나방  
 두점박이물결자나방  
 큰고래물결자나방  
 큰툭날물결자나방  
 연회색가 지나방  
 줄고운가 지나방  
 두줄짙룩가 지나방  
 멧진노랑물결자나방  
 무늬박이흰물결가 지나방  
 솔개빛물결자나방  
 가운데흰물결자나방  
 흰그물물결자나방  
 갈고리가 지나방  
 큰노랑물결자나방  
 흰줄푸른자나방  
 줄물결푸른자나방  
 밑무늬물결자나방  
 세줄날개가 지나방  
 쥐빛가 지나방  
 줄구름무늬가 지나방  
 북방구름무늬가 지나방  
 안개띠흰가 지나방  
 흑점박이흰가 지나방  
 흰무늬물결자나방  
 먹그림가 지나방  
 노랑날개무늬가 지나방  
 남방갈고리가 지나방  
 흰제비가 지나방  
 고운날개가 지나방  
 연푸른가 지나방  
 연푸른가 지나방



51. *Paradarisa consonaria* (Hbner, 1799)  
 52. *Parectropis nigrosparsa* (Wieleman et South, 1917)  
 53. *Pareclipsis gracilis* (Butler, 1879)  
 54. *Pelurga comitata* (Linnaeus, 1758)  
 55. *Phthonosema tendinosaria* (Bremer, 1864)  
 56. *Plagodis dolabraria* (Linnaeus, 1767)  
 57. *Plagodis pulveraria* (Linnaeus, 1758)  
 58. *Pseudepione marginaria* (Wilemann, 1911) \*  
 [표본조사] ☞ 한라수목원: 영실 [2ex, 28-IX-2009].  
 59. *Racotis petrosa* (Butler, 1879)  
 60. *Rheumaptera hastata* (Linnaeus, 1758)  
 61. *Rhynchobapta cervinaria* (Moor, 1888)  
 62. *Rhynchobapta eburnivena* (Warren, 1896)  
 63. *Rikiosaroa grisea* (Butler, 1878)  
 64. *Synegia esther* Butler, 1881  
 65. *Timandra griseata* Petersen, 1902  
 66. *Xandrames dholaria* Moor, 1868  
 67. *Xanthorhoe saturata* (Guene, 1857)  
 68. *Zethenia albonotaria* (Bremer, 1864)  
 69. *Zethenia rufescentaria* Motschulsky, 1861

## Family 9. Lasiocampidae 솔나방과

1. *Cyclophragma undans fasciatella* (Menetries, 1859)  
 2. *Odonestis pruni rufescens* Kardakoff, 1928  
 3. *Paralebeda femorata* (Mntris, 1859)

## Family 10. Saturniidae 산누에나방과

1. *Caligula boisduval fallax* Jordan, 1911  
 2. *Samia cynthia* (Drury, 1773)

## Family 11. Sphingidae 박각시과

1. *Acosmeryx castanea* Rothschild et Jordan, 1903  
 2. *Acosmeryx naga* (Moore, 1857)  
 3. *Ampelophaga rubiginosa* Bremer et Grey, 1852  
 4. *Dolbina tancrei* Staudinger, 1887  
 5. *Kentrochrysalis consimilis* Rothschild et Jordan, 1903  
 6. *Macroglossum bombylans* (Boisduval, 1875)  
 7. *Macroglossum pyrrhostictum* (Butler, 1875)  
 8. *Macroglossum saga* (Butler, 1878)  
 9. *Macroglossum stellatarum* (Linnaeus, 1758)  
 10. *Marumba gaschkewitschii* (Bremer et Grey, 1852)  
 11. *Marumba saishiuana* Okamoto, 1924  
 12. *Marumba sperchius* (Mntris, 1857)  
 13. *Neogurelca himachala sangaica* (Butler, 1875)  
 14. *Oxyambulyx japonica* (Rothschild, 1894)  
 15. *Rhagastis mongoliana* (Butler, 1875)  
 16. *Theretra japonica* (De L'Orza, 1869)  
 17. *Theretra oldenlandiae* (Fabricius, 1775)

## Family 12. Notodontidae 재주나방(하늘나방)과

1. *Allodonta plebeja* (Oberthur, 1880)  
 2. *Cnethodonta grisescens* Staudinger, 1887  
 3. *Dudusa sphingiformis* Moore, 1872

영실회색가지나방  
 가랑잎가지나방  
 끝잘룩노랑가지나방  
 갈색물결자나방  
 뿔무늬큰가지나방  
 줄고운노랑가지나방  
 띠넓은가지나방  
 가을노랑가지나방  
 참물결가지나방  
 큰흰띠검정물결자나방  
 두줄갈고리가지나방  
 흰줄갈고리가지나방  
 두줄가지나방  
 검은톱니가지나방  
 붉은날개애기자나방  
 흰띠왕가지나방  
 물결자나방  
 짐잘룩가지나방  
 솔발가지나방

섬나방  
 사과나무나방  
 대만나방

작은산누에나방  
 가중나무고치나방

물결포도박각시  
 포도박각시  
 머루박각시  
 물결박각시  
 검정무늬박각시  
 작은검은꼬리박각시  
 별꼬리박각시  
 검정꼬리박각시  
 꼬리박각시  
 분홍등줄박각시  
 제주등줄박각시  
 등줄박각시  
 애벌꼬리박각시  
 갈고리박각시  
 우단박각시  
 줄박각시  
 세줄박각시

까마귀재주나방  
 뒷검은재주나방  
 꽃술재주나방

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|---|-----------|
| 4. <i>Epodonta lineata</i> (Oberthr, 1880)                | 줄재주나방     |
| 5. <i>Euhampsonia cristata</i> (Butler, 1877)             | 곰추재주나방    |
| 6. <i>Fentonia ocypete</i> (Bremer, 1861)                 | 밤나무재주나방   |
| 7. <i>Lophocosma atriplaga</i> (Staudinger, 1887)         | 검은줄재주나방   |
| 8. <i>Neodrymonia coreana</i> Matsumura, 1922             | 고려재주나방    |
| 9. <i>Neodrymonia delia</i> (Leech, 1889)                 | 노린재나무재주나방 |
| 10. <i>Notodonta dembowskii</i> Oberthur, 1879            | 밀노랑재주나방   |
| 11. <i>Peridea elzet</i> Kiriakoff, 1963                  | 노고지리재주나방  |
| 12. <i>Phalerodonta bombycina</i> (Oberthur, 1880)        | 덤불재주나방    |
| 13. <i>Pterostoma sinicum</i> Moore, 1877                 | 주름재주나방    |
| 14. <i>Semidonta biloba</i> (Oberthr, 1880)               | 겹날개재주나방   |
| 15. <i>Shaka atrovittatus atrovittatus</i> (Bremer, 1861) | 긴띠재주나방    |
| 16. <i>Spatalia doerrisi</i> Graeser, 1888                | 은무늬재주나방   |
| 17. <i>Suzukiana cinerea</i> (Butler, 1879)               | 비녀재주나방    |
| 18. <i>Syntypistis cyanea</i> (Leech, 1899)               | 때죽나무재주나방  |
| 19. <i>Syntypistis pryri</i> (Leech, 1899)                | 회색재주나방    |
| 20. <i>Syntypistis subgeneris</i> (Strand, 1915)          | 연갈색재주나방   |

## Family 13. Lymantriidae 독나방과

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|--|--------|
| 1. <i>Arctornis kumatai</i> Inoue, 1956      | 점흰독나방  |
| 2. <i>Euproctis piperita</i> (Oberthr, 1880) | 무늬독나방  |
| 3. <i>Euproctis torasan</i> (Holland, 1889)  | 뒷검은독나방 |
| 4. <i>Lymantria dispar</i> (Linnaeus, 1758)  | 매미나방   |
| 5. <i>Lymantria lucescens</i> (Butler, 1881) | 물결매미나방 |
| 6. <i>Lymantria monacha</i> (Linnaeus, 1758) | 얼룩매미나방 |

## Family 14. Arctiidae 불나방과

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|--|------------|
| 1. <i>Agylla collitoides</i> (Butler, 1885)            | 앞노랑검은불나방   |
| 2. <i>Agylla gigantea</i> (Oberthr, 1878)              | 앞선두리불나방    |
| 3. <i>Eilema griseola</i> (Hbner, 1803)                | 노랑테불나방     |
| 4. <i>Mitochondria aberrans</i> Butler, 1877           | 교차무늬주홍테불나방 |
| 5. <i>Mitochondria striata</i> (Bremer et Grey, 1852)  | 홍줄불나방      |
| 6. <i>Spilosoma luteum</i> (Hufnagel, 1776)            | 외줄점불나방     |
| 7. <i>Spilosoma seriatopunctatum</i> Motschulsky, 1860 | 줄점불나방      |

## Family 15. Noctuidae 밤나방과

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|---|-------------|
| 1. <i>Abrostola triplasia</i> (Linnaeus, 1758)              | 췌기풀알락밤나방    |
| 2. <i>Abrostola major</i> Dufay, 1957                       | 큰알락밤나방      |
| 3. <i>Acanthopplusia ichinosei</i> (Dufay, 1965)            | 은무늬밤나방      |
| 4. <i>Acronicta cuspidis</i> (Hubner, 1813)                 | 오리나무저녁나방    |
| 5. <i>Acronicta rumicis</i> (Linnaeus, 1758)                | 배저녁나방       |
| 6. <i>Agrotis ipsilon</i> (Hufnagel, 1776)                  | 검거세미나방      |
| 7. <i>Amphipyra livida</i> (Denis et Schifferrmiller, 1775) | 까마귀밤나방      |
| 8. <i>Amphipyra schrenckii</i> Menetries, 1859              | 흰점까마귀밤나방    |
| 9. <i>Amphipyra tripartita</i> Butler, 1878                 | 흰줄까마귀밤나방    |
| 10. <i>Anaplectoides virens</i> (Butler, 1878)              | 큰녹색밤나방      |
| 11. <i>Arcte coerula</i> (Guene, 1852)                      | 암청색줄무늬밤나방   |
| 12. <i>Calyptra hokkaida</i> (Wileman, 1922)                | 북방갈고리밤나방    |
| 13. <i>Catocala dissimilis</i> Bremer, 1861                 | 끝흰무늬박이뿔날개나방 |
| 14. <i>Chasminodes atrata</i> (Butler, 1884)                | 흰몸은빛밤나방     |
| 15. <i>Chrysodeixis eriosoma</i> (Doubleday, 1843)          | 붉은금무늬밤나방    |
| 16. <i>Chrysorithrum amatum</i> (Bremer et Grey, 1853)      | 사랑밤나방       |
| 17. <i>Cosmia campostigma</i> (Menetries, 1859)             | 회색쌍줄밤나방     |

18. *Cosmia exigua* (Butler, 1881) ---밤나방  
 19. *Cosmia trapezina* (Linnaeus, 1758) 한국밤나방  
 20. *Diarsia brunnea* (Denis et Schiffermüller, 1775) 흰점갈색밤나방  
 21. *Diarsia canescens* (Butler, 1878) 물결밤나방  
 22. *Diarsia pacifica* Boursin, 1943 붉은밤나방  
 23. *Diomea jankowskii* (Oberthur, 1880) 세모무늬잎밤나방  
 24. *Euplexia illustrata* Graeser, 1889 크림밤나방  
 25. *Gelastocera exusta* Butler, 1877 검은띠애기밤나방  
 26. *Hadena aberrans* (Eversmann, 1856) 흰변두리밤나방  
 27. *Hadennia incongruens* (Butler, 1879) 검은띠수염나방  
 28. *Herminia arenosa* Butler, 1878 세줄무늬수염나방  
 29. *Hermonassa cecilia* Butler, 1878 접박이밤나방  
 30. *Hydrillodes morosa* Butler, 1879 넓은띠담흑수염나방  
 31. *Hypena zilla* Butler, 1879 흰구름수염나방  
 32. *Hypena stygiana* Butler, 1878 \* 고개무늬수염나방  
 [Specimens Examined] Yeongsil [1ex, 22-VII-2009]  
 33. *Hypena trigonalis* (Guene, 1854) 대만수염나방  
 34. *Macdunnoughia confusa* (Stephens, 1850) 국화는무늬밤나방  
 35. *Mythimna divergens* Butler, 1878 긴쌍띠밤나방  
 36. *Mythimna obsoleta* (Hubner, 1803) 맵시밤나방  
 37. *Mythimna turca* (Linnaeus, 1761) 쌍띠밤나방  
 38. *Orthosia paromoea* (Hampson, 1905) 곧은띠밤나방  
 39. *Orthogonia sera* Felder et Felder, 1862 모진밤나방  
 40. *Peridrona saucia* (Hubner, 1808) 뒷흰날개밤나방  
 41. *Pseudoips fagana* (Fabricius, 1781) 쌍줄푸른밤나방  
 42. *Scedopla coreana* Sugi, 1959 알락무늬수염나방  
 43. *Simplicia niphona* (Butler, 1878) 곧은띠수염나방  
 44. *Sineugraphe bipartita* (Graeser, 1889) 담색쌍검은밤나방  
 45. *Sineugraphe exusta* (Butler, 1878) 쌍검은밤나방  
 46. *Spodoptera litura* (Fabricius, 1775) 담배거세미나방  
 47. *Stenoloba jankowskii* (Oberthur, 1885) 흰줄이끼밤나방  
 48. *Synoides picta* (Butler, 1877) 흰줄썩은잎밤나방  
 49. *Thyas juno* (Dalman, 1823) 무궁화밤나방  
 50. *Trachea atriplicis* (Linnaeus, 1758) 메밀거세미나방  
 51. *Triphaenopsis jezoensis* Sugi, 1962 북방뒷노랑밤나방  
 52. *Triphaenopsis lucilla* Butler, 1878 흰점뒷노랑밤나방  
 53. *Xanthia japonago* (Wileman et West, 1929) 닥나무노랑무늬밤나방  
 54. *Xestia efflorescens* (Butler, 1879) 뒷노랑점밤나방  
 55. *Xestia kollari* (Lederer, 1853) 멋쟁이밤나방  
 56. *Xestia tabida* (Butler, 1878) \* 끝검은점밤나방  
 [Specimens Examined] Yeongsil [4ex, 22-VII-2009].

## Family 16. Hesperidae 팔랑나비과

1. *Daimio tethys* (Mntr, 1857) 왕자팔랑나비  
 2. *Hesperia comma* (Linnaeus, 1758) 꽃팔랑나비  
 3. *Parnara guttata* (Bremer et Grey, 1852) 줄점팔랑나비

## Family 17. Papilionidae 호랑나비과

1. *Papilio macilentus* Janson, 1877 긴꼬리제비나비  
 2. *Papilio xuthus* Linnaeus, 1767 호랑나비

## Family 18. Pieridae 흰나비과

1. *Anthocharis scolymus* Butler, 1866 갈구리나비

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|---|-------|
| 2. <i>Colias erate</i> (Esper, 1804)    | 노랑나비  |
| 3. <i>Pieris melete</i> (Mntris, 1857)  | 큰줄흰나비 |
| 4. <i>Pieris napi</i> (Linnaeus, 1758)  | 줄흰나비  |
| 5. <i>Pieris rapae</i> (Linnaeus, 1758) | 배추흰나비 |

## Family 19. Lycaenidae 부전나비과

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|---|---------|
| 1. <i>Favonius orientalis</i> (Murray, 1875)    | 큰녹색부전나비 |
| 2. <i>Favonius taxila taxila</i> (Bremer, 1861) | 산녹색부전나비 |
| 3. <i>Lycaeides subsolana</i> (Eversmann, 1851) | 산부전나비   |

## Family 20. Danaidae 왕나비과

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|---|-----|
| 1. <i>Parantica sita</i> (Kollar, 1833) | 왕나비 |
|---|-----|

## Family 21. Nymphalidae 네발나비과

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|--|----------|
| 1. <i>Argyreus hyperbius</i> (Linnaeus, 1763)        | 임끝검은표범나비 |
| 2. <i>Argyronome laodice</i> (Pallas, 1771)          | 흰줄표범나비   |
| 3. <i>Argyronome sagana sagana</i> (Doubleday, 1847) | 큰흰줄표범나비  |
| 4. <i>Cynthia cardui</i> (Linnaeus, 1758)            | 작은멋장이나비  |
| 5. <i>Fabriciana adippe</i> (Linnaeus, 1767)         | 긴은점표범나비  |
| 6. <i>Fabriciana nerippe</i> (C. et R. Felder, 1862) | 왕은점표범나비  |
| 7. <i>Vanessa indica</i> (Herbst, 1794)              | 큰멋장이나비   |

## Family 22. Satyridae 뱀눈나비과

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|--|---------|
| 1. <i>Aphantopus hyperantus</i> (Linnaeus, 1758) | 가락지나비   |
| 2. <i>Coenonympha amaryllis</i> (Cramer, 1782)   | 시골처녀나비  |
| 3. <i>Coenonympha hero</i> (Linnaeus, 1761)      | 도시처녀나비  |
| 4. <i>Eumenis autonoe</i> (Esper, 1781)          | 산골뚝나비   |
| 5. <i>Lethe diana</i> (Butler, 1866)             | 먹그늘나비   |
| 6. <i>Pararge achine</i> (Scopoli, 1763)         | 눈많은그늘나비 |
| 7. <i>Melanargia epimede</i> (Staudinger, 1892)  | 조흰뱀눈나비  |
| 8. <i>Mycalesis francisca</i> (Cramer, 1782)     | 부처사촌나비  |
| 9. <i>Mycalesis gotama</i> Moore, 1857           | 부처나비    |
| 10. <i>Oeneis nanna</i> Mntris, 1858             | 참산뱀눈나비  |
| 11. <i>Oeneis urda</i> (Eversmann, 1847)         | 함경산뱀눈나비 |